

Message

From: Hamilton, Scott [hamilton.scott@epa.gov]
Sent: 8/23/2018 7:20:20 PM
To: Coughlin, Justin [coughlin.justin@epa.gov]; Fuoco, Marta [fuoco.marta@epa.gov]
CC: Compher, Michael [compher.michael@epa.gov]
Subject: RE: Comparison with DUVAS reprocessed data vs TO15

I just added this to the bottom of the Comparison 2 tab:

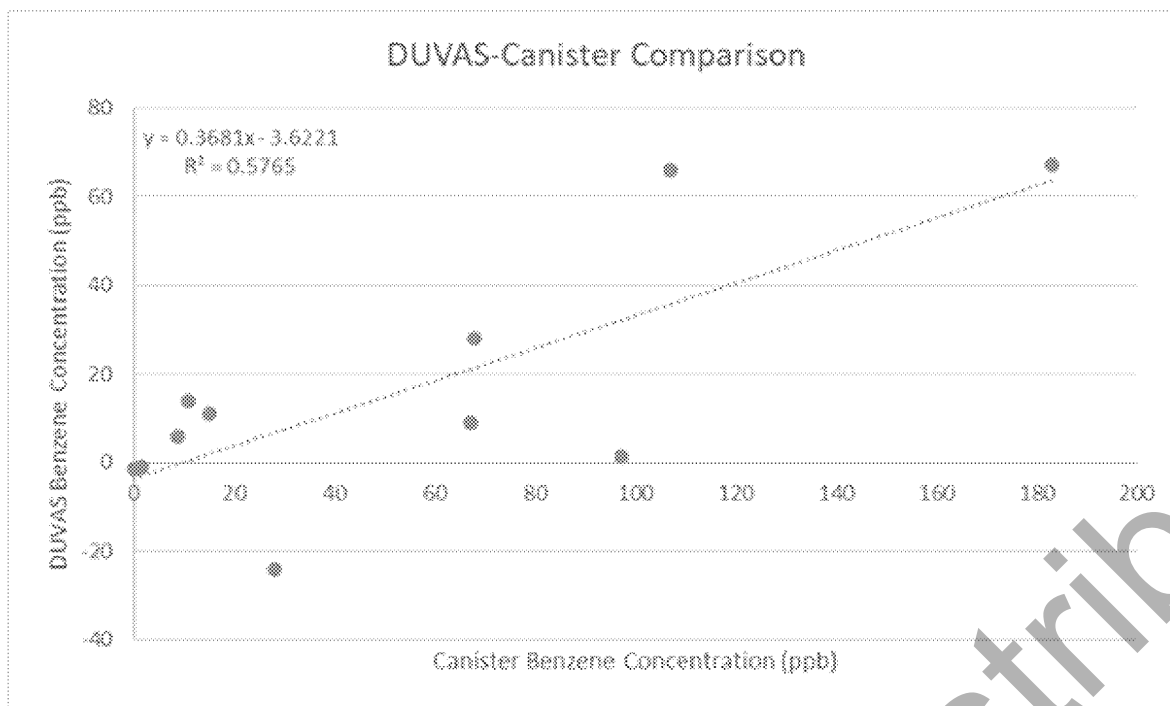
24 hour comparison (5/24 - 5/25)		
DUVAS AVG	8.625	ST 08:06 ET 08:11
OTTAWA COMP #3	9.79	ST 08:20 ET 07:53
OTTAWA COMP #4	10.3	ST 08:30 ET 07:48

Scott Hamilton
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USEPA Region 5
Scott Hamilton (AT-18J)
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From: Coughlin, Justin
Sent: Wednesday, August 01, 2018 2:25 PM
To: Fuoco, Marta <fuoco.marta@epa.gov>; Hamilton, Scott <hamilton.scott@epa.gov>
Cc: Nwia, Jacqueline <nwia.jacqueline@epa.gov>; Compher, Michael <compher.michael@epa.gov>
Subject: RE: Comparison with DUVAS reprocessed data vs TO15



The re-processed data had decent results against the canister concentrations. There was an r^2 value of 0.58 with a p value < 0.01, making it a significant correlation. The slope is only 0.37 and in doing some statistical analyses, the negative DUVAS value is not merited to be removed from the dataset as an outlier unless we have some technical/instrumentation error reasons to remove it from the dataset. Generally speaking, for an atmospheric inter-comparison, this is a significantly correlated dataset with good results.

Justin Coughlin
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From: Fuoco, Marta
Sent: Monday, July 23, 2018 7:27 AM
To: Hamilton, Scott <hamilton.scott@epa.gov>; Coughlin, Justin <coughlin.justin@epa.gov>
Cc: Siegel, Kathryn <siegel.kathryn@epa.gov>; Compher, Michael <compher.michael@epa.gov>; Nwia, Jacqueline <nwia.jacqueline@epa.gov>
Subject: RE: Comparison with DUVAS reprocessed data vs TO15

That's great. I can talk today, or figure out a time while I am out to call in. Thanks, Scott.

Marta A. Fuoco | U.S. Environmental Protection Agency R5
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From: Hamilton, Scott
Sent: Monday, July 23, 2018 7:09 AM
To: Coughlin, Justin <coughlin.justin@epa.gov>; Fuoco, Marta <fuoco.marta@epa.gov>
Cc: Siegel, Kathryn <siegel.kathryn@epa.gov>; Compher, Michael <compher.michael@epa.gov>; Nwia, Jacqueline <nwia.jacqueline@epa.gov>
Subject: Comparison with DUVAS reprocessed data vs TO15

The comparison looks good. Both sets have one point that is bringing the R2 down. If you look at the raw DUVAS data you can see that we really needed the EXACT seconds when we collected the grab sample.

We should have a final discussion but I think we are good to report the reprocessed DUVAS data.

FYI: I only updated the 'comparison 1' and comparison 2' tabs Benzene

data. <https://usepa.sharepoint.com/:x:/r/sites/R5/ARD/ATAB/AMAS/GMAP/Shared%20Documents/2018%20GMAP%20Season/Comparison%20Data%20reprocessed.xlsx?d=w9bd4c5f96d7141b39b3ed61b68b972e2&csf=1>

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